

REV: 01/14/2019

Cleanroom KL-FGPA Troffers - Tunable White

2x4 High Efficiency LED Luminaires with Plenum Access

- Rated IP66
- Suitable for ISO 3-9 Cleanspaces
- Suitable for 209E class 1-100,000 Cleanspaces
- **ETL listed for Wet Locations**
- One piece overlapping doorframe
- Robotically seam welded housing
- Tunable White 2700k 6500k CCT
- **Available With DALI Or 0-10V Controls**
- Access to plenum space using sealed access panel in housing.
- One Housing Suitable for Flange and Grid Installation.
- Made in the USA by a Family Owned US Corporation













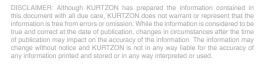
















Installation Type

Material

CRI/CCT

Control

Voltage

Options

KL

Series	Installation Type		Material	Size	Source	CRI/CCT	Control:	Voltage	Options
KL	FGPA: Recessed	4:		2x4: Nominal 2'x4' Housing	2/LEDTW		0-10v Analog Dimming		FF: Fuse & Holder
	Access				3/LEDTW		10V-CON: Continuous CCT 0-10v dimming 10V-WD: Warm Dim 0- 10V dimming		EM10: 10W Integral LED EM (Specify Input Voltage)
		5:			4/LEDTW				EM20: 20W Remote LED EM (Specify Input Voltage)
									WHT: White Finished Door & HSG
		7:							PxL: Programmed to User Specified Lumen Value.
									PxW: Programmed to User Specified Wattage Value.
							DALI Digital Dimming		10KV: 10KV Parallel Surge Protection
							DAL-CON: Cont. CCT DALI dimming		WHIP: Must specify Length, Type, Wire Qty
									LEX: .125" Prismatic Polycarbonate
									A19: .156" Prismatic P19 Pattern Clear Acrylic
									.125 FROST: 1/8" Frost Acrylic Lens
									OCCMW: Internal microwave OCC Sensor



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SPECIFICATIONS

HOUSING: Welded .050" thick aluminum construction. Hole free housing with flattened knockouts and a large plenum access plate hinged to housing by (2) aircraft cables allowing simple access to the area above the ceiling.

DOOR FRAME: One piece door frame with welded corners overlaps the fixture allowing the NSF approved microcellular gasket to seal to the mounting surface. Door frame is hinged by aircraft cables and is supplied with captive stainless steel flush head screws to allow easy wiping of the surface. Available in 20Ga 304 Polished SS, or 18Ga Powder coated CRS.

GASKETS: NSF Listed closed cell microcellular extruded KleanLock SealPro gasket with vulcanized corners making a one-piece oil and solvent resistant gasket system.

LENS: Standard Lens provided is a RF Shielded .125" Symmetric P12 Acrylic Lens. ASY option provides RF Shielded Asymmetric distribution lens with frost overlay.

LEDS: Commercially available minimum 80 CRI 2 channel LED modules use 2700K and 6500K chips to mix color in order to achieve a desired color temperature. Modules have rated lifetime of L70 > 50,000 hrs and efficacy of 165Lm/W . See LED options to specify a custom range of Color temperatures. Consult factory for lumen output configurations not listed on spec sheets.

DRIVERS: Dual Channel Programmable Drivers make color tuning simple. Available in 0-10v Analog Dimming or DALI digital dimming. The 0-10v continuous dimming method uses two sets of dimming wires. 1 set of dimming wires controls the luminous flux while maintaining consistent color and the other set controls the color in a linear dimming curve. 0-10v is also available as warm dimming that uses 1 set of dimming wires that adjust both intensity and color simultaneously. Alternately control is available with DALI Digital Dimming as well.

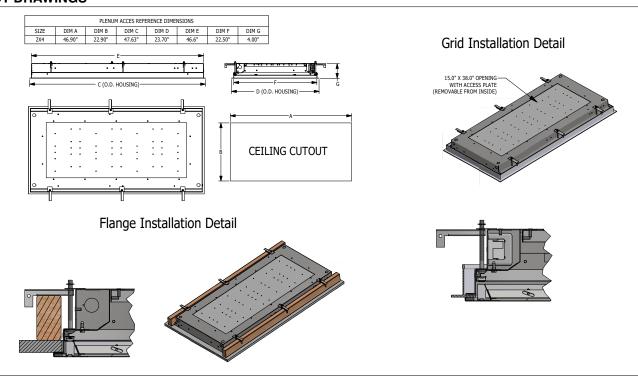
REFLECTOR: Die formed metal with high reflectance white polyester powder coat finish. Typical reflectivity 92%.

INSTALLATION: Fixtures are supplied with (4) .875" flattened and silicone sealed knockouts for wiring. Recessed housings are supplied with (6) swing out toggle arms and are available for row mounting end to end. Housings fit most 1.0" and 1.5" Tbar grid ceilings, must verify with details below.

FINISH: Gloss white high reflectance 1000 hr. salt spray polyester powder coat finish standard for all recessed housings. Stainless steel doorframes are satin polished unless option WHT is chosen.

LISTINGS: IP66 rated for dust and water ingress. Suitable for 1700 PSI high pressure hosedowns. ETL listed per UL_1598 for wet locations. Chicago Plenum Rated. Certified ISO-14644-1 for class 3 through class 9 cleanspaces. Certified Fed Std 209E for Class 1 through Class 100,000 cleanspaces. NSF2 Listed for Food Zones. Drivers and LEDs are covered by a 5 year warranty, the remaining fixture is covered by a 10 year warranty.

PRODUCT DRAWINGS





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ENERGY DATA

PA OVERLAP-FG-LED TROFFER (APPROX¹ LUMENS DELIVERED)													
ENCLOSURE	LIGHT PACKAGE	80 C	RI (3000K - 500	MAX AMB	CCT RANGE								
SIZE		LUMENS	WATTS ²	EFFICACY ³	TEMP								
2X4	2LEDTW	7,800	68	115	40°C (104°F)	2700k - 6500k							
2X4	3LEDTW	11,700	103	114	40°C (104°F)	2700k - 6500k							
2X4	4LEDTW	15,600	135	116	40°C (104°F)	2700k - 6500k							
2X4	EM10	1140-1160*	4	NA	40°C (104°F)	NA							

- 1 DELIVERED LUMEN DATA IS CALCULATED BASED ON STATIC WHITE PHOTOMETRY @ 4000K CCT
- 2 WATTAGE IS MEASURED WITH 4000K SELECTION @ 120vAC AND Tambient = 25C. WATTAGES MAY VARY WITH ALTERNATE CONFIGURATIONS
- 3 EFFICACY CALCULATED USING 4000K CCT DATA.
- 4 MAX AMBIENT TEMP RATING, NON-IC INSTALLATON. TEMP RATING MAY VARY WITH SPECIFIED DRIVERS OR ANY NON STANDARD SELECTION
- 5 90 MINUTE 10W EMERGENCY DRIVER; LUMENS CALCULATED BASED ON FIXTURE EFFICACY.
- 6 EM10 DELIVERED LUMENS = (DELIVERED LUMENS/LUMINAIRE WATTS)*10